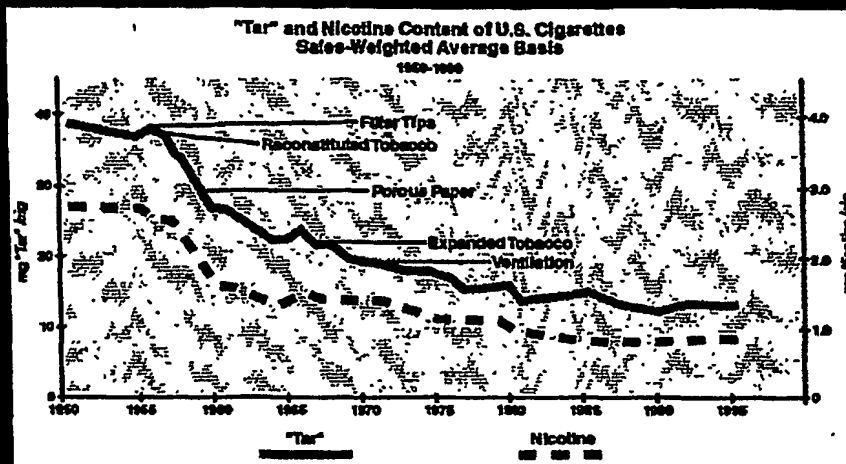


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FIGURE 1

## History of Tar &amp; Nicotine Yields



Source: RJRT.com

- 1950 : Sales Weighted Average TNR  $(39/2.7) =$

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## FIGURE 2

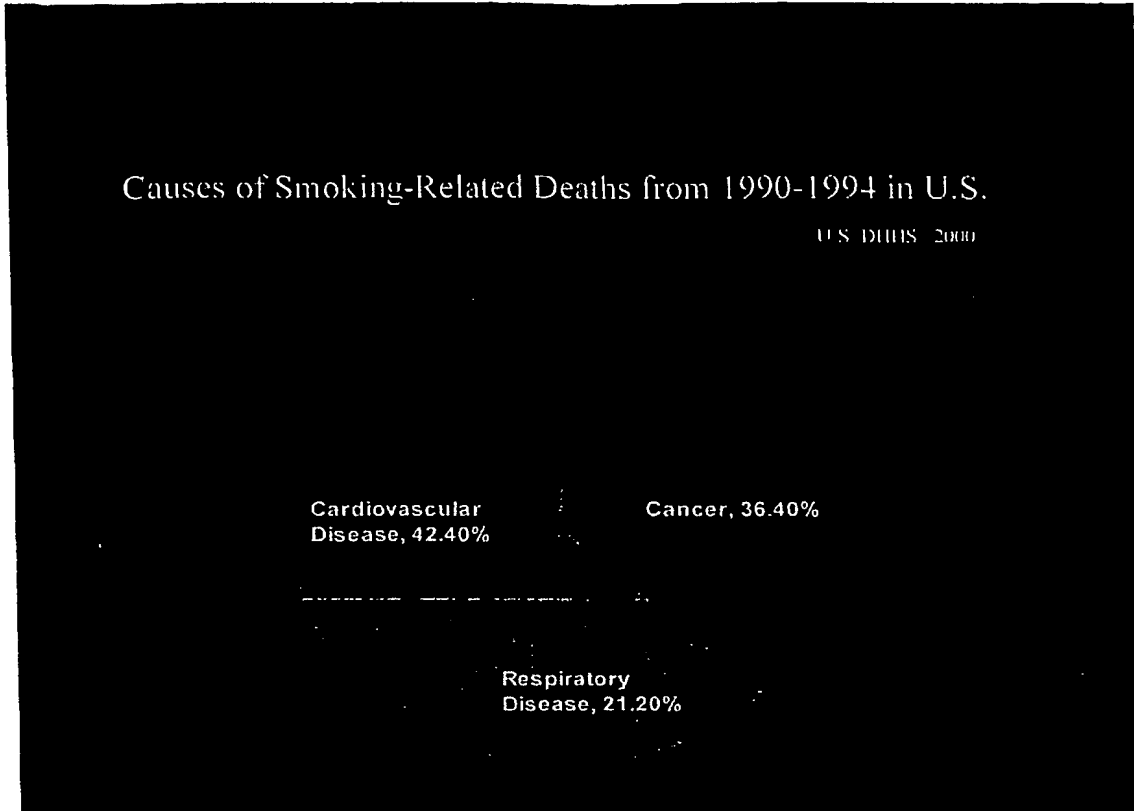
Comparison of TNR's of Popular Brands*			
	Tar	Nic.	TNR
Marlboro Kings Filter Soft Pack	15	1.1	13.64
Marlboro Medium Kings Filter Soft Pack	11	0.8	13.75
Marlboro Lights Kings Filter Soft Pack	11	0.8	13.75
Marlboro Ultra Lights Kings Filter Box	6	0.5	13.75
Marlboro 100's Filter Box Red	15	1.1	13.75
Basic Full Flavor Kings Filter Box	16	1	16.00
Basic Lights Kings Filter Box	10	0.7	14.29
Basic Ultra Lights Kings Filter Soft Pack	6	0.5	12.00
Basic Full Flavor 100's Filter Soft Pack	16	1	16.00
Virginia Slims Full Flavor 100's Filter Box	15	1.1	13.64
Virginia Slims Lights 120's Filter Menthol Box	14	1.1	12.73
GPC Full Flavor King	15	0.8	15.75 (Highest)
GPC Lights King Box	9	0.6	15.00
GPC Ultra Lights King	5	0.4	12.50
GPC Menthol Full Flavor 100	13	0.8	16.25
Lucky Strike Non-Filter	23	1.5	15.33
Lucky Strike Filter King Box	15	1.1	13.64
Lucky Strike Lights King Box	9	0.8	11.25 (Lowest)

\* These brands represent about 50 % of U.S. market

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# FIGURE 3



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## FIGURE 4

Comparison between Vector Burley 21-41 and Burley 21 LA

	TREATMENT		
	Vector Burley 21-41	Promoter Control	Wild-type
Days from transplant to flowering (days)	57.1 $\pm$ 3.6*	56.7 $\pm$ 3.4*	57.6 $\pm$ 3.4*
Height at flowering (cm)	118.6 $\pm$ 20.1*	112.1 $\pm$ 21.4*	110.8 $\pm$ 19.5*
Yield (kg/ha)	890.3 $\pm$ 70.7*	780 $\pm$ 68.5*	809.2 $\pm$ 71.2*
% Nicotine (X 10 <sup>2</sup> )	1.44 $\pm$ 0.66**	19.12 $\pm$ 8.99*	21.54 $\pm$ 9.34*
% Nor-Nicotine (X 10 <sup>2</sup> )	0.4 $\pm$ 0.1**	1.56 $\pm$ 0.22*	1.27 $\pm$ 0.52*
% Total Alkaloids	0.23 $\pm$ 0.07**	2.07 $\pm$ 0.93*	2.31 $\pm$ 0.94*
% Total Nitrogen	2.52 $\pm$ 0.78*	2.96 $\pm$ 0.42*	2.64 $\pm$ 0.91*
% Reducing Sugars	10.29 $\pm$ 0.89**	5.87 $\pm$ 2.04*	5.51 $\pm$ 2.40*

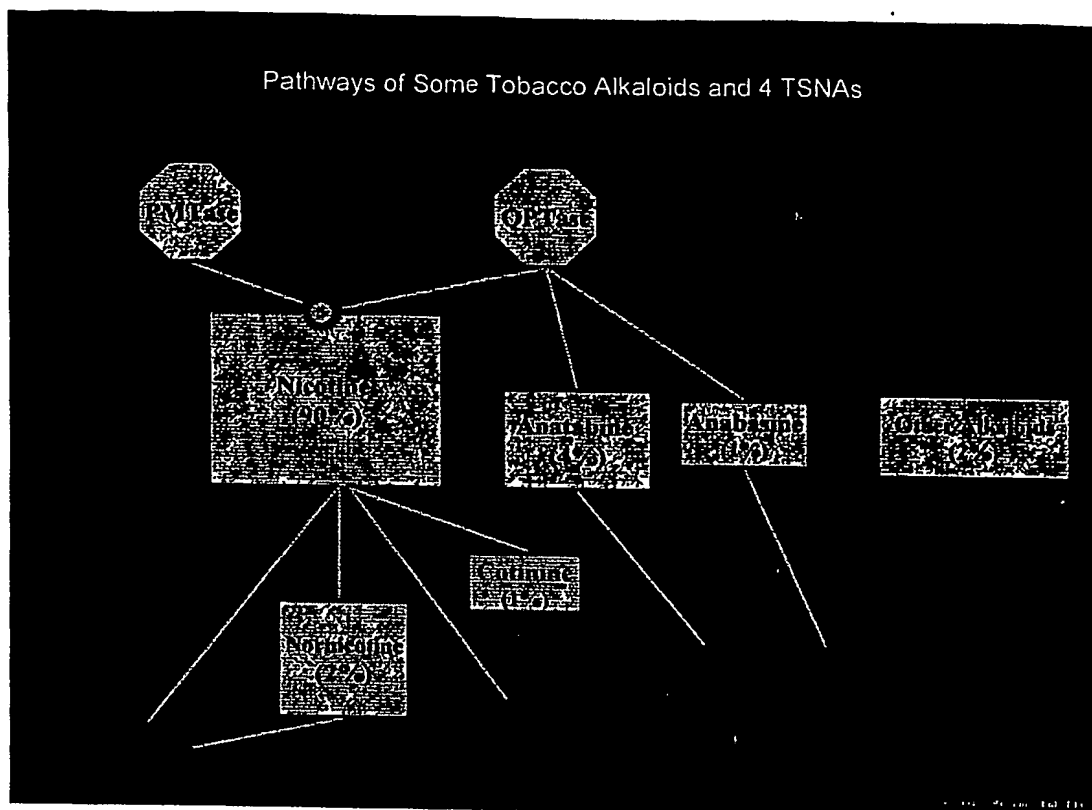
Data from 2000 field trial at Central Crops Research Station, Clayton, NC. Chemical analysis was carried out on topped plants. 15 replicates/10 plants per replicate. Data were analyzed using the F-test.

\* = No significant difference, \*\* = Significant at the 1% level.

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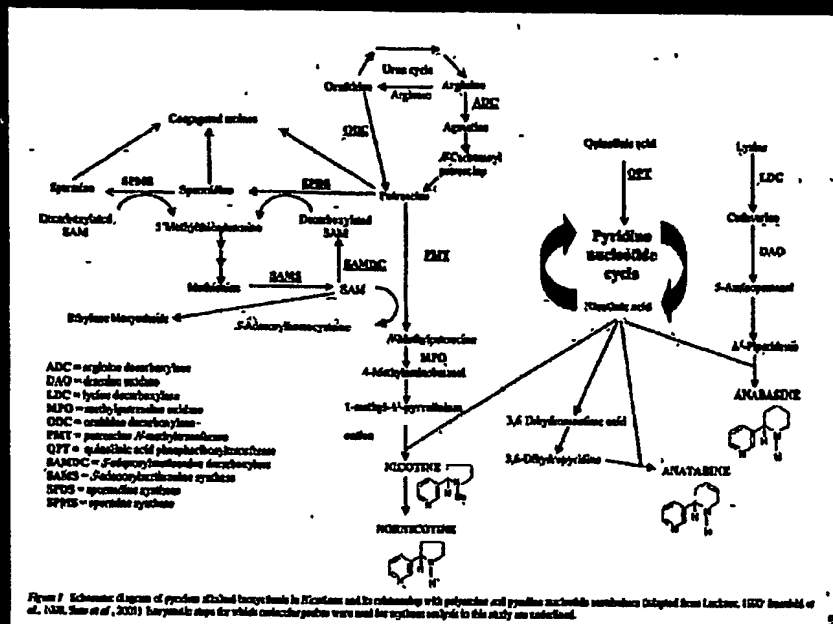
FIGURE 5



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FIGURE 6

Schematic diagram of pyridine alkaloid biosynthesis in *Nicotiana*.

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